

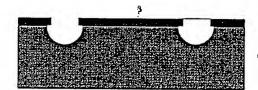
1. Start Substrate Wafer



2. Deposit Masking Material

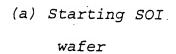


3. Pattern Masking Material



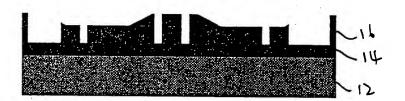
4. Etch Substrate Wafer

FIG. 1 PRIOR ART MICROFABRICATION PROCESS





(b) Mesa Etch



(c) Structural Etch

FIG. 2 FI

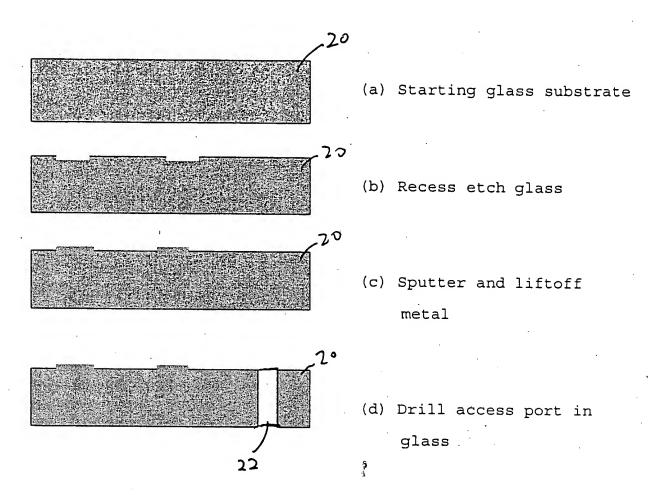


FIG. 3 PROCESS STEPS FOR GLASS SUBSTRATE

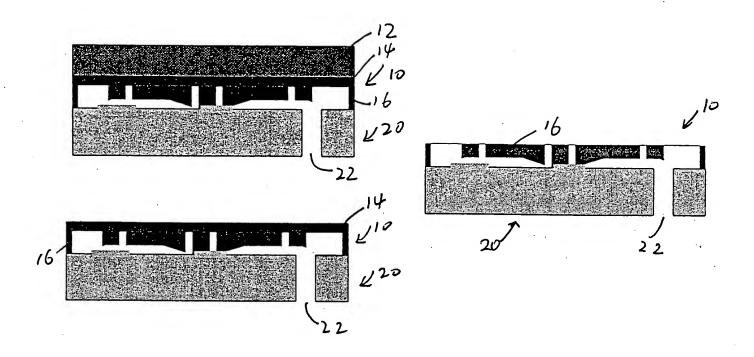


FIG. 4
BONDING, WAFER THINNING AND OXIDE DIELECTRIC REMOVAL

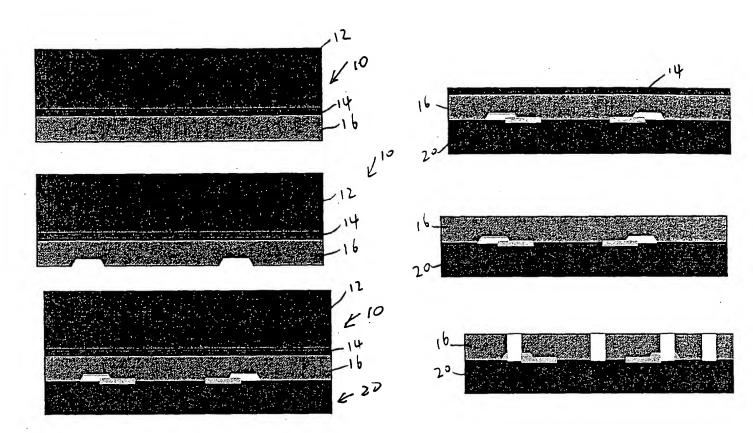


FIG. 5 BASELINE BESOI PROCESS SEQUENCE.

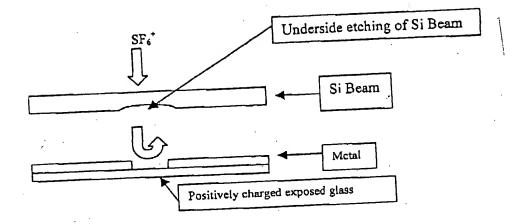
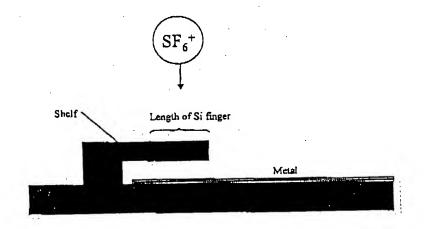
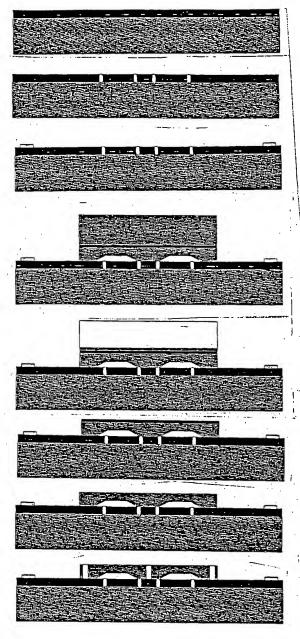


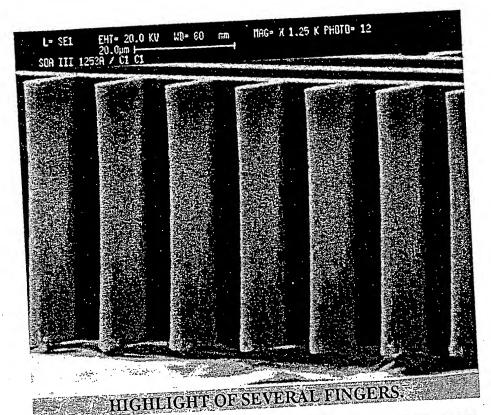
FIG. 6A (PRIOR ART)



F16.6B



A6.7



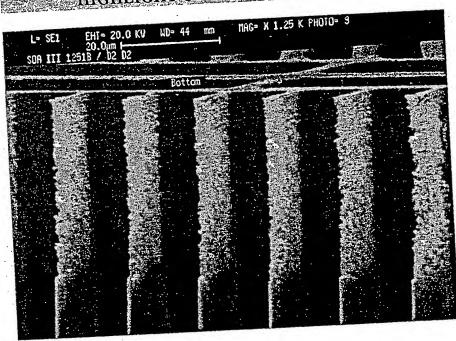


FIG. 8

(a) EPITAXIAL COMB FINGERS.

(a) BASELINE BESOI COMB FINGERS

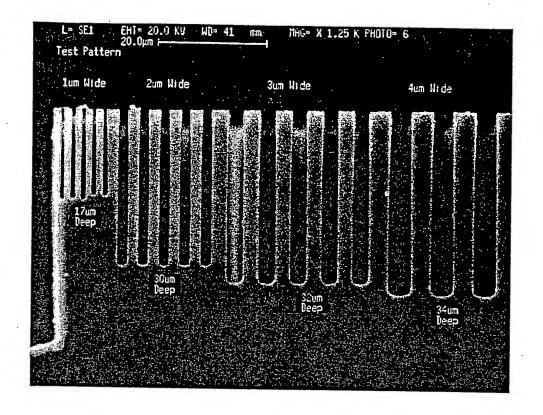


FIG. 9 PHENOMENON OF RIE LAG, WHERE NARROW TRENCHES ETCH MORE SLOWLY